



# Programmatic Overview

## SERVICE TO OTHER DOE OFFICES

As a Federal resource laboratory, EML provides DOE offices with a readily available and objective in-house capability in support of their special and unique requirements. EML conducts authoritative and unbiased reviews and evaluations of proposals and provides expert consultation for the Office of Energy Research (ER), the Office of Environment Safety and Health (EH), and the Office of Nonproliferation and National Security (NN).

### Descriptions

- For the Office of Energy Research, EML is responsible for creating, annually updating, maintaining and ensuring the quality of a database of all human subjects research currently funded by DOE.
- For ER, EML manages the day-to-day operation of the Strategic Environmental Research and Development Program (SERDP), a partnership program (DoD, DOE, and EPA) that addresses the defense-related environmental priorities focusing on cleanup, compliance, conservation and pollution prevention technologies.
- Under funding provided by EH, EML will perform a pilot test of the American National Standards Institute Draft Standard N13.29, "Environmental Dosimetry Performance- Criteria for Testing," which covers performance testing of environmental dosimetry providers.
- The Office of Nonproliferation and National Security provides funding for research and development of field and laboratory based advanced analytical instruments and technologies, coupled with current techniques in sample collection and analysis and data reduction, to identify nuclear proliferation threats throughout the world.
- EML is developing a database identifying archived environmental samples collected since the 1950's in its global programs.
- EML is conducting a survey of the scientific community to determine the availability of environmental samples collected near former nuclear weapons facilities.

### Points of Contact

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### Accomplishments

- A database of current DOE-sponsored research involving human subjects was designed and installed at EML.
- The FY1994, 1995, 1996 Human Subjects Research Database is published on the World Wide Web, making it readily accessible to the public at:  
<http://www.er.doe.gov/production/oher/humsubj/database.html>
- A new, completely automatic remote atmospheric measurements system (AUTORAMP) was developed and tested at EML, followed by successful field testing at McClellan Air Force Base in California for a 7-month period during 1996.
- A paper on the AUTORAMP, "An Automatic Unit for Unattended Aerosol Collection, Gamma-Ray Analysis and Data Transmission From Remote Locations," has been submitted to Radioactivity & Radiochemistry for publication.
- EML contributed to the development of United States policy on the analyses of environmental radioactivity for nonproliferation treaty monitoring.
- In support of environmental monitoring activities for nonproliferation treaty violations, EML fabricated an automatic micro-pipette for the IAEA Seibersdorf Laboratory in Vienna, Austria. This system is identical to the one designed and used by EML to spike air filter samples for the Quality Assessment Program.
- An EML scientist is a member of the Radiation Detection Panel, funded by the Office of Research and Development (NN-20) to review research proposals and results, to respond to technical inquiries, and to make recommendations for present and future research programs.
- An EML scientist is a member of the Workgroup on Radionuclide International Monitoring System that provides scientific recommendations to Working Group B of the Comprehensive Test Ban Treaty (CTBT) Preparatory Commission.

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capabilities and downloadable publications.

